CONTENTS

Number 1

Reginald Johnson, John B. Kaneene and James W. Lloyd	1	Lymphocyte colony formation by aleukemic sheep infected with bovine leukemia virus
Reginald Johnson, John B. Kaneene and James W. Lloyd	15	A lymphocyte colony assay for culture of sheep lymphocytes
H. E. Smith, R. M. Jacobs and B. Mallard	29	Cell-mediated and humoral immunity in sheep exposed to bovine immunodeficiency-like virus
Richard D. Jurd	41	"Not proper mammals": immunity in monotremes and marsupials
Thierry Baron, Christine Caux and Jean-François Dore	53	Long term *in vitro* growth of lymphoblastoid cells in the dog
Karel Krovacek, Suraj B. Baloda, Stefano Dumontet and Ingmar Månsson	63	Detection of potential virulence markers of *Vibrio vulnificus* strains isolated from fish in Sweden
Terezija Hrženjak, Ante Roguljić, Vilena Kašuba and Maks Karlović	71	The role of sialic acid and Ca^{2+} ions in rabies virus-infected foxes brain
E. Ortega, C. Barriga and A. B. Rodríguez	77	Decline in the phagocytic function of alveolar macrophages from mice exposed to cigarette smoke
	I	Announcements
	III	New Patents

Number 2

G. Castrucci, M. Ferrari, F. Frigeri and V. Traldi	85	Immunosuppression as a factor in allowing mucosal disease to occur
M. K. Ijaz, S. A. Sattar, T. Alkarmi, F. K. Dar, A. R. Bhatti and K. M. Elhag	91	Studies on the survival of aerosolized bovine rotavirus (UK) and a murine rotavirus

M. K. Ijaz, M. I. Sabara, T. Alkarmi, P. J. Frenchick, K. F. Ready, F. K. Dar and L. A. Babiuk — 99 — Molecular determinants of rotavirus virulence: localization of a potential virulence site in a murine rotavirus VP4

Bruno B. Chomel, Michele T. Jay, Charles R. Smith, Philip H. Kass, C. Patrick Ryan and Larry R. Barrett — 111 — Serological surveillance of plague in dogs and cats, California, 1979–1991

Zygmunt Pejsak, Barbara Wasińska, Iwona Markowska-Daniel and Alex Hogg — 125 — Field evaluation of thirteen regimens for the control of progressive atrophic rhinitis

Sanjay Kapil, Sagar M. Goyal and Ava M. Trent — 133 — Cellular immune status of coronavirus-infected neonatal calves

Sanjay Kapil, Ava M. Trent and Sagar M. Goyal — 139 — Antibody responses in spiral colon, ileum, and jejunum of bovine coronavirus-infected neonatal calves

Number 3/4

Pasquale Urbano and Francesco Giuseppe Urbano — 151 — The *Reoviridae* family

Allan R. Gould and Alex D. Hyatt — 163 — The orbivirus genus. Diversity, structure, replication and phylogenetic relationships

Bennie I. Osburn — 189 — The impact of bluetongue virus on reproduction

N. James MacLachlan — 197 — The pathogenesis and immunology of bluetongue virus infection of ruminants

E. Paul J. Gibbs and Ellis C. Greiner — 207 — The epidemiology of bluetongue

Ahmad Afshar — 221 — Bluetongue: laboratory diagnosis

Polly Roy, Peter P. C. Mertens and Ignacio Casal — 243 — African horse sickness virus structure

T. G. Burrage and W. W. Laegreid — 275 — African horsesickness: pathogenesis and immunity

P. S. Mellor — 287 — Epizootiology and vectors of African horse sickness virus

W. W. Laegreid — 297 — Diagnosis of African horsesickness

Gianfranco Donelli and Fabiana Superti 305 The rotavirus genus

G. Castrucci, M. Ferrari, F. Frigeri, V. Traldi and V. Angelillo 321 A study on neonatal calf diarrhea induced by rotavirus